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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Ronald Busink, et al.

SER. NO: 09/920,122

Art Unit: 1711

Filed: August 1, 2001

Examiner: Unknown

For: **Process For The Production Of Chemically Or Enzymatically Modified Polysaccharides And Products Made Thereby**

Honorable Commissioner of Patents and Trademarks
Washington, DC 20231-0001

Dear Sir:

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TC 1700

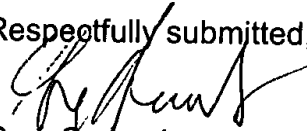
INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.56
AND 37 CFR 1.97-1.98

Pursuant to 37 C.F.R. 1.56 and 37 C.F.R. 1.97-1.98, Applicant calls the attention of the Examiner to Form 1449 attached herewith, which cites published art documents listed in the above patent application and the International Search Report (search page and documents enclosed) in connection with PCT counterpart application no. US 01/24329.

Since no Office Action has been received, it is not believed that any fee is due. Accordingly, it is respectfully submitted that consideration of the above noted Information Disclosure Statement is appropriate, and consideration of the same is respectfully requested.

Should there be any questions or comments regarding this paper or the present application, Examiner is invited to contact the undersigned at the below-listed telephone number. In the event any fee is due, please charge Applicant's Deposit Account No. 08-1800.

Respectfully submitted,



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Attorney for Applicant
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April 24, 2002

10020

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| PTO-1449 (MODIFIED) DOCUMENTS CITED BY APPLICANT | ATTY. DOCKET NO. 10020 | SERIAL NO. 09/920,122 |
| | APPLICANT(S) Ronald Busink, Alfred Haandrikman, Michaela Hofbauer, Hielke Tjeerd de Vries and Sandra Berberich-Franchen | |
| | FILING DATE August 1, 2001 | GROUP 1711 |

U.S. PATENT DOCUMENTS

| EXAMINER* INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE RELEVANT |
|----------------------|----|--------------------|------|------------------|-------|----------|-------------------------|
| | AA | 3,231,560 ✓ | 1966 | Keen et al. | 260 | 209 | |
| | AB | 3,236,832 ✓ | 1966 | Opie et al. | 260 | 209 | |
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| | AD | 4,031,307 ✓ | 1977 | DeMartino et al. | 536 | 114 | |
| | AE | 4,453,979 ✓ | 1984 | DeMasi et al. | 106 | 188 | |
| | AF | 5,234,825 ✓ | 1993 | McCleary | 435 | 101 | |
| | AG | 5,318,669 ✓ | 1994 | Dasgupta | 162 | 164.3 | |
| | AH | 5,338,407 ✓ | 1994 | Dasgupta | 162 | 168.3 | |
| | AI | 5,502,091 ✓ | 1996 | Dasgupta | 524 | 55 | |
| | AJ | 5,554,745 ✓ | 1996 | Chung-Wai | 536 | 52 | |
| | AK | 5,633,300 ✓ | 1997 | Dasgupta | 524 | 55 | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|--|----|--------------------|------|---------|-------|----------|-------------|----|
| | | | | | | | YES | NO |
| | AL | 0 003 582 ✓ | 1981 | EP | C04B | 13/00 | | |
| | AM | 0 058 917 ✓ | 1985 | EP | C09K | 7/02 | | |
| | AN | 0 219 281 A2 ✓ | 1987 | EP | C08B | 37/00 | | |
| | AO | 0 113 079 ✓ | 1990 | EP | A61K | 6/00 | | |
| | AP | 0 465 992 A1 ✓ | 1992 | EP | C08B | 11/20 | | |

OTHER REFERENCES (Including author, title, date, pertinent pages, etc.)

| | |
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| AR | Donnelly, "Viscosity Control of Guar Polysaccharide Solutions by Treatment with Galactose Oxidase and Catalase Enzymes", Methods in Biotechnology, Vol. 10, pgs. 79 - 99; edited by C. Bucke, School of Biosciences, University of Westminster, London, UK |
| AS | Frollini, Reed, Milas & Rinaudo, Polyelectrolytes from polysaccharides: selective oxidation of guar gum - a revisited reaction, Carbohydrate Polymers 27 (1995) 129-135 |
| AT | |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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| PTO-1449 (MODIFIED) DOCUMENTS CITED BY APPLICANT | ATTY. DOCKET NO. 10020 | | SERIAL NO. 09/920,122 | |
| | APPLICANT(S) Ronald Busink, Alfred Haandrikman, Michaela Hofbauer, Hielke Tjeerd de Vries and Sandra Berberich-Franchen | | | |
| | FILING DATE August 1, 2001 | | GROUP 171 | |

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| EXAMINER* INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE RELEVANT |
|----------------------|----|--------------------|------|------------------|-------|----------|-------------------------|
| | AA | 5,700,917 ✓ | 1997 | Chung-Wai et al. | 536 | 18.7 | |
| | AB | 6,022,717 ✓ | 2000 | Brady et al. | 435 | 101 | |
| | AC | 6,124,124 ✓ | 2000 | Brady et al. | 435 | 190 | |
| | AD | 6,179,962 B1 ✓ | 2001 | Brady et al. | 162 | 164.1 | |
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| | AK | | | | | | |

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|--|----|--------------------|------|---------|-------|----------|-------------|----|
| | | | | | | | YES | NO |
| | AL | 1 047 467 ✓ | 1996 | GB | C14c | 7/00 | | |
| | AM | 1589 04 ✓ | 1983 | DD | C08B | 9/00 | | |
| | AN | 99 34009 ✓ | 1999 | WO | C12P | 19/00 | | |
| | AO | | | | | | | |
| | AP | | | | | | | |

OTHER REFERENCES (Including author, title, date, pertinent pages, etc.)

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